

## SEQUENCE LISTING

<110> TAM, CHERK SHING

<120> BONE STIMULATING FACTOR

<130> 079997/0124

<140> 09/323,854

<141> 1999-06-02

<150> PCT/CA97/00967

<151> 1997-12-11

<150> 08/763,458

<151> 1996-12-11

<150> PCT/CA96/00401

<151> 1996-06-07

<160> 63

<170> PatentIn Ver. 2.1

<210> 1

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide  
derived from Rattus sp.

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Gly	Ile	Gly	Lys	Arg	Thr	Asn	Glu	His	Thr	Ala	Asp	Cys	Lys	Ile	Lys
1				5					10					15	

Pro	Asn	Thr	Leu	His	Lys	Lys	Ala	Ala	Glu	Thr	Leu	Met	Val	Leu	Asp
			20					25					30		

Gln	Asn	Gln	Pro
			35

<210> 2

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide  
derived from Rattus sp.

<220>

<221> MOD\_RES

<222> (1)

<223> N-acetyl glycine

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<400> 2  
 Xaa Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile Lys  
           1                  5                  10                  15

Pro Asn Thr Leu His Lys Lys Ala Ala Glu Thr Leu Met Val Leu Asp  
                   20                  25                  30

Gln Asn Gln Pro  
                   35

<210> 3  
 <211> 36  
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 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<400> 3  
 Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Ala Lys Ile Lys  
           1                  5                  10                  15

Pro Asn Thr Leu His Lys Lys Ala Ala Glu Thr Leu Met Val Leu Asp  
                   20                  25                  30

Gln Asn Gln Pro  
                   35

<210> 4  
 <211> 30  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<400> 4  
 Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile Lys  
           1                  5                  10                  15

Pro Asn Thr Leu His Lys Lys Ala Ala Glu Thr Leu Met Val  
                   20                  25                  30

<210> 5  
 <211> 25  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<400> 5  
 Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile Lys  
           1                          5                          10                          15

Pro Asn Thr Leu His Lys Lys Ala Ala  
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<210> 6  
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 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
           derived from Rattus sp.

<400> 6  
 Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile Lys  
           1                          5                          10                          15

Pro Asn Thr Leu  
                   20

<210> 7  
 <211> 15  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
           derived from Rattus sp.

<400> 7  
 Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile  
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<210> 8  
 <211> 14  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
           derived from Rattus sp.

<400> 8  
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<210> 9  
 <211> 10  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<400> 9  
 Arg Thr Asn Glu His Thr Ala Asp Cys Lys  
           1                  5                  10

<210> 10  
 <211> 16  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
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<400> 10  
 Leu His Lys Lys Ala Ala Glu Thr Leu Met Val Leu Asp Gln Asn Gln  
           1                  5                  10                  15

<210> 11  
 <211> 15  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
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<400> 11  
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<210> 12  
 <211> 14  
 <212> PRT  
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<220>  
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<400> 12  
 Leu His Lys Lys Ala Ala Glu Thr Leu Met Val Leu Asp Gln  
           1                  5                  10

<210> 13  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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derived from Rattus sp.

<400> 13  
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           1                          5                          10

<210> 14  
 <211> 23  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
           derived from Rattus sp.

<400> 14  
 Thr Ala Asp Cys Lys Ile Lys Pro Asn Thr Leu His Lys Lys Ala Ala  
           1                          5                          10                          15

Glu Thr Leu Met Val Leu Asp  
                           20

<210> 15  
 <211> 30  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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           derived from Rattus sp.

<400> 15  
 Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile Lys Pro Asn Thr Leu  
           1                          5                          10                          15

His Lys Lys Ala Ala Glu Thr Leu Met Val Leu Asp Gln Asn  
                           20                          25                          30

<210> 16  
 <211> 11  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
           derived from Rattus sp.

<400> 16  
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           1                          5                          10

<210> 17  
 <211> 90  
 <212> DNA

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&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic DNA derived  
from Rattus sp.

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1)..(90)

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<400> 17
ggg atc gga aaa cga aca aat gaa cat acg gca gat tgt aaa att aaa 48
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  1                      5                      10                      15

ccg aac acc ttg cat aaa aaa gct gca gag act tta atg gtc          90
Pro Asn Thr Leu His Lys Lys Ala Ala Glu Thr Leu Met Val
      20                      25                      30

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&lt;210&gt; 18

&lt;211&gt; 75

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic DNA derived  
from Rattus sp.

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1)..(75)

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<400> 18
ggg atc gga aaa cga aca aat gaa cat acg gca gat tgt aaa att aaa 48
Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile Lys
  1                      5                      10                      15

ccg aac acc ttg cat aaa aaa gct gca          75
Pro Asn Thr Leu His Lys Lys Ala Ala
      20                      25

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&lt;210&gt; 19

&lt;211&gt; 60

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic DNA derived  
from Rattus sp.

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1)..(60)

<400> 19  
 ggg atc gga aaa cga aca aat gaa cat acg gca gat tgt aaa att aaa 48  
 Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile Lys  
           1                  5                  10                  15

ccg aac acc ttg  
 Pro Asn Thr Leu  
                   20

60

<210> 20  
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 <213> Artificial Sequence

<220>  
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<220>  
 <221> CDS  
 <222> (1)..(45)

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           1                  5                  10                  15

<210> 21  
 <211> 42  
 <212> DNA  
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<220>  
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           from Rattus sp.

<220>  
 <221> CDS  
 <222> (1)..(42)

<400> 21  
 ggg atc gga aaa cga aca aat gaa cat acg gca gat tgt aaa 42  
 Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys  
           1                  5                  10

<210> 22  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
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<220>

<221> CDS

<222> (1)..(30)

<400> 22

cga aca aat gaa cat acg gca gat tgt aaa  
Arg Thr Asn Glu His Thr Ala Asp Cys Lys  
1 5 10

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<210> 23

<211> 108

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA derived  
from Rattus sp.

<220>

<221> CDS

<222> (1)..(108)

<400> 23

ggg atc gga aaa cga aca aat gaa cat acg gca gat tgt aaa att aaa 48  
Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile Lys  
1 5 10 15

ccg aac acc ttg cat aaa aaa gct gca gag act tta atg gtc ctt gac 96  
Pro Asn Thr Leu His Lys Lys Ala Ala Glu Thr Leu Met Val Leu Asp  
20 25 30

caa aat gaa cca  
Gln Asn Glu Pro  
35

108

<210> 24

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide  
derived from Rattus sp.

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<221> MOD\_RES

<222> (1)

<223> N-acetyl arginine

<220>

<221> MOD\_RES

<222> (10)

<223> lysinamide

<400> 24

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<210> 25  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<220>  
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 <222> (1)  
 <223> N-acetyl arginine

<220>  
 <221> MOD\_RES  
 <222> (10)  
 <223> lysinamide

<400> 25  
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           1                          5                          10

<210> 26  
 <211> 10  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
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<220>  
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 <223> N-acetyl arginine

<220>  
 <221> MOD\_RES  
 <222> (10)  
 <223> lysinamide

<400> 26  
 Xaa Thr Gln Glu His Thr Ala Glu Cys Xaa  
           1                          5                          10

<210> 27  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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 derived from Rattus sp.

<220>  
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 <223> N-acetyl arginine

<220>  
 <221> MOD\_RES  
 <222> (10)  
 <223> lysinamide

<400> 27  
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<210> 28  
 <211> 10  
 <212> PRT  
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<220>  
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           derived from Rattus sp.

<400> 28  
 Arg Thr Asn Glu His Thr Ala Glu Cys Lys  
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<210> 29  
 <211> 10  
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 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
           derived from Rattus sp.

<400> 29  
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<210> 30  
 <211> 10  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
           derived from Rattus sp.

<400> 30  
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<210> 31  
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<220>  
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 from Rattus sp.

<220>  
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 <222> (1)..(30)

<400> 31  
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 Arg Thr Asn Glu His Thr Ala Glu Cys Lys  
 1 5 10

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<210> 32  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
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 from Rattus sp.

<220>  
 <221> CDS  
 <222> (1)..(30)

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 1 5 10

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<210> 33  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic DNA derived  
 from Rattus sp.

<220>  
 <221> CDS  
 <222> (1)..(30)

<400> 33  
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 Arg Thr Gln Glu His Thr Ala Asp Cys Lys  
 1 5 10

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<210> 34

<211> 10  
 <212> PRT  
 <213> Artificial Sequence

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 <223> N-acetyl alanine

<220>  
 <221> MOD\_RES  
 <222> (10)  
 <223> lysinamide

<220>  
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<400> 34  
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           1                          5                          10

<210> 35  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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 <222> (1)  
 <223> N-acetyl arginine

<220>  
 <221> MOD\_RES  
 <222> (10)  
 <223> lysinamide

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<400> 35  
 Xaa Thr Gln Ala His Thr Ala Asp Cys Xaa  
           1                          5                          10

<210> 36  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

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 <223> N-acetyl arginine

<220>

<221> MOD\_RES  
 <222> (10)  
 <223> lysinamide

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<400> 36  
 Xaa Thr Asn Glu Ala Thr Ala Asp Cys Xaa  
       1                              5                              10

<210> 37  
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 <213> Artificial Sequence

<220>  
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 <223> N-acetyl arginine

<220>  
 <221> MOD\_RES  
 <222> (10)  
 <223> lysinamide

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<400> 37  
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<210> 38  
 <211> 10  
 <212> PRT  
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<220>  
 <221> MOD\_RES  
 <222> (10)  
 <223> alaninamide

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
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<400> 38  
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           1                          5                          10

<210> 39  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

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<220>  
 <221> MOD\_RES  
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 <223> lysinamide

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
           derived from Rattus sp.

<400> 39  
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           1                          5                          10

<210> 40  
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 <213> Artificial Sequence

<220>  
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 <222> (1)  
 <223> N-acetyl arginine

<220>  
 <221> MOD\_RES  
 <222> (10)  
 <223> lysinamide

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
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<210> 41  
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<220>  
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 <222> (1)  
 <223> N-acetyl arginine

<220>  
 <221> MOD\_RES  
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 <223> lysinamide

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<400> 41  
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           1                          5                          10

<210> 42  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

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 <223> N-acetyl arginine

<220>  
 <221> MOD\_RES  
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 <223> lysinamide

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<400> 42  
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           1                          5                          10

<210> 43  
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 <212> PRT  
 <213> Artificial Sequence

<220>  
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 <223> N-acetyl arginine

<220>  
 <221> MOD\_RES  
 <222> (10)  
 <223> lysinamide

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<400> 43  
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           1                          5                          10

<210> 44  
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 <213> Artificial Sequence

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<220>  
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 <222> (10)  
 <223> lysinamide

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<400> 44  
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           1                          5                          10

<210> 45  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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 <222> (1)  
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<220>  
 <221> MOD\_RES  
 <222> (10)  
 <223> lysinamide

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<400> 45  
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<210> 46



<211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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 <222> (1)  
 <223> N-acetyl arginine

<220>  
 <221> MOD\_RES  
 <222> (10)  
 <223> lysinamide

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<400> 46  
 Xaa Thr Gln Glu His Thr Ala Glu Ser Xaa  
           1                  5                  10

<210> 47  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<400> 47  
 Arg Ala Asn Glu His Thr Ala Asp Cys Lys  
           1                  5                  10

<210> 48  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<400> 48  
 Arg Thr Ala Glu His Thr Ala Asp Cys Lys  
           1                  5                  10

<210> 49  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

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<220>
<223> Description of Artificial Sequence: Synthetic polypeptide
      derived from Rattus sp.
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<400> 53  
 Arg Thr Gln Glu His Thr Ala Glu Tyr Lys  
           1                          5                          10

<210> 54  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic DNA derived  
           from Rattus sp.

<400> 54  
 Arg Thr Gln Glu His Thr Ala Glu Ser Lys  
           1                          5                          10

<210> 55  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
           derived from Rattus sp.

<220>  
 <221> CDS  
 <222> (1)..(30)

<400> 55  
 cga gca aat gaa cat acg gca gat tgt aaa  
 Arg Ala Asn Glu His Thr Ala Asp Cys Lys  
           1                          5                          10

30

<210> 56  
 <211> 30  
 <212> DNA  
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<220>  
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           derived from Rattus sp.

<220>  
 <221> CDS  
 <222> (1)..(30)

<400> 56  
 cga aca gca gaa cat acg gca gat tgt aaa  
 Arg Thr Ala Glu His Thr Ala Asp Cys Lys  
           1                          5                          10

30

<210> 57

<220>  
<223> Description of Artificial Sequence: Synthetic polypeptide  
derived from Rattus sp.

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<400> 57
cga aca aat gaa cat gca gca gat tgt aaa
Arg Thr Asn Glu His Ala Ala Asp Cys Lys
      1                      5                      10
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<210> 58
<211> 30
<212> DNA
<213> Artificial Sequence
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<220> Description of Artificial Sequence: Synthetic polypeptide  
<223> derived from Rattus sp.

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<220>  
<221> CDS  
<222> (1) .. (30)
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<400> 58
cga aca aat gaa cat aca ggg gat tgt aaa
Arg Thr Asn Glu His Thr Gly Asp Cys Lys
      1                      5                      10
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<210> 59
<211> 30
<212> DNA
<213> Artificial Sequence
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<220> Description of Artificial Sequence: Synthetic polypeptide  
<223> derived from Rattus sp.

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<220>  
<221> CDS  
<222> (1) .. (30)
```

```
<400> 59
cga aca aat gaa cat aca gca gat tat aaa
Arg Thr Asn Glu His Thr Ala Asp Tyr Lys
      1                      5                      10
```

```
<210> 60
<211> 30
```

<212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<220>  
 <221> CDS  
 <222> (1)..(30)

<400> 60  
 cga aca caa gaa cat aca gca gaa gca aaa  
 Arg Thr Gln Glu His Thr Ala Glu Ala Lys  
           1                          5                          10

30

<210> 61  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic polypeptide  
 derived from Rattus sp.

<220>  
 <221> CDS  
 <222> (1)..(30)

<400> 61  
 cga aca caa gaa cat aca gca gaa tat aaa  
 Arg Thr Gln Glu His Thr Ala Glu Tyr Lys  
           1                          5                          10

30

<210> 62  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> CDS  
 <222> (1)..(30)

<220>  
 <223> Description of Artificial Sequence: Synthetic DNA derived  
 from Rattus sp.

<400> 62  
 cga aca caa gaa cat aca gca gaa tct aaa  
 Arg Thr Gln Glu His Thr Ala Glu Ser Lys  
           1                          5                          10

30

<210> 63  
 <211> 10  
 <212> PRT

## &lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Consensus

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (2)

&lt;223&gt; t or a

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (3)

&lt;223&gt; n, q or a

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (6)

&lt;223&gt; t or a

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (7)

&lt;223&gt; g or a

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (8)

&lt;223&gt; e or d

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (9)

&lt;223&gt; c, y, a or s

&lt;400&gt; 63

Arg Xaa Xaa Glu His Xaa Xaa Xaa Xaa Lys

1

5

10